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**CLAIMS**

1. A process for restructuring keratin fibers, characterized in that
- (A) at least one enzyme of the transglutaminase type and
- (B) at least one active substance with substrate activity for the enzyme
- are applied to the fibers.
2. A process as claimed in claim 1, characterized in that the enzyme is
- 5 a calcium-independent transglutaminase.
3. A process as claimed in claim 1 or 2, characterized in that the active
- substance with substrate activity is a protein or a protein hydrolyzate.
4. A process as claimed in claim 3, characterized in that the active
- substance with substrate activity is selected from casein, soya protein and
- 10 wheat protein.
5. A process as claimed in claim 1 or 2, characterized in that the active
- substance with substrate activity is an active substance synthetically
- functionalized with an  $H_2N-R$  group or an  $H_2N-(CO)-R'$  group, where R and
- R' stand for an unbranched  $C_{1-8}$  alkylene group.
- 15 6. A process as claimed in claim 5, characterized in that the active
- substance with substrate activity carries at least one  $H_2N-(CH_2)_4$  group.
7. A process as claimed in claim 5, characterized in that the active
- substance with substrate activity carries at least one  $H_2N-(CO)-CH_2-CH_2$
- group.
- 20 8. A process as claimed in any of claims 1 to 7, characterized in that
- the enzyme preparation is applied to the fibers together with the active
- substance with substrate activity.
9. A process as claimed in any of claims 1 to 8, characterized in that
- the contact time is 3 to 120 minutes.
- 25 10. The use of (A) at least one enzyme of the transglutaminase type and
- (B) at least one active substance with substrate activity for the enzyme for
- restructuring keratin fibers.
11. The use of (A) at least one enzyme of the transglutaminase type and

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(B) at least one active substance with substrate activity for the enzyme for setting keratin fibers.

12. A two-part kit for restructuring keratin fibers, characterized in that it contains (a) a composition containing an active substance with substrate  
5 activity and (b) a composition containing an enzyme of the transglutaminase type.

Adopt